

# M 5.6, 52 km SSE of Madang, Papua New Guinea

Origin Time: 2023-10-07 13:10:40 UTC (Sat 23:10:40 local)  
Location: 5.6775° S 145.9334° E Depth: 44.0 km

**PAGER**  
**Version 5**

Created: 1 day, 0 hours after earthquake

## Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

## Estimated Economic Losses

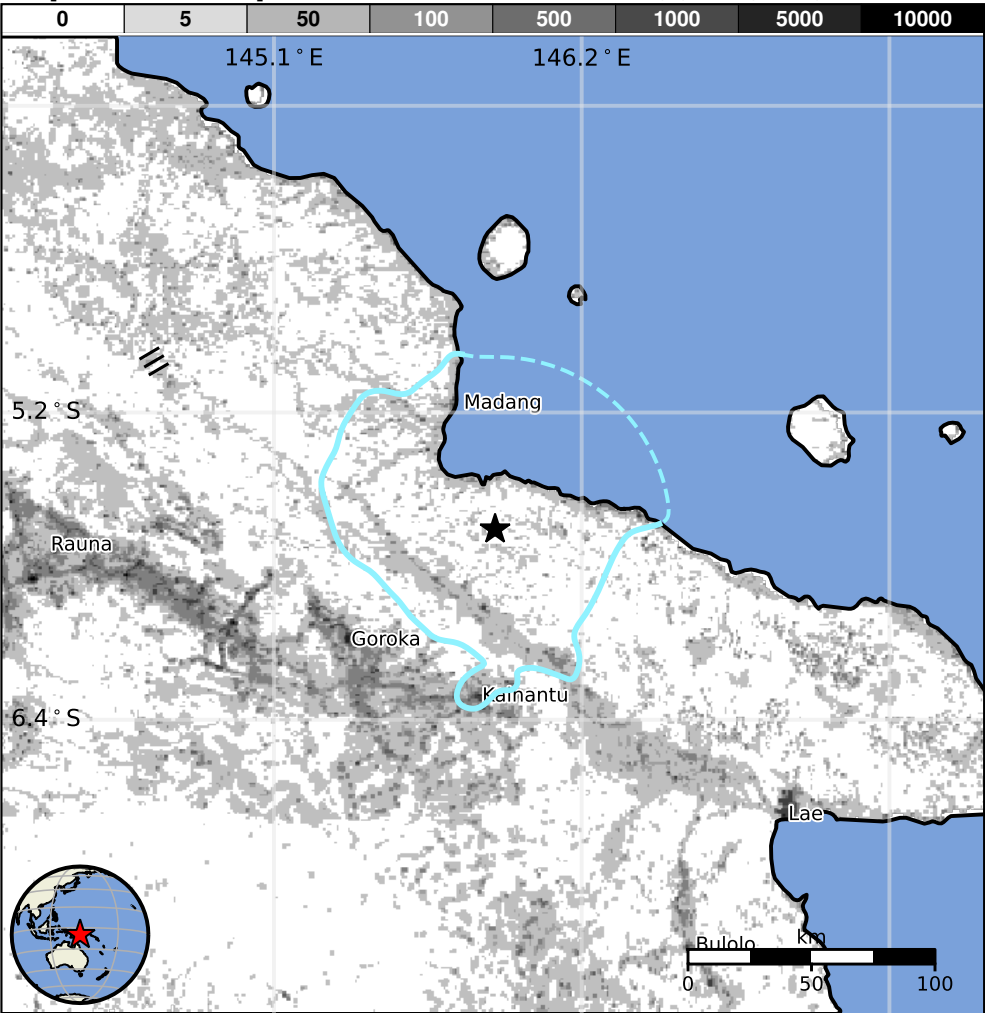


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	2,427k	534k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2005-06-04	123	6.1	VII(27k)	1
1993-08-20	349	6.1	VIII(13k)	0
1993-10-16	44	6.3	VII(75k)	3

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Madang	27k
IV	Kainantu	9k
IV	Goroka	19k
III	Kundiawa	9k
III	Minj	<1k
III	Lae	76k
III	Rauna	<1k
III	Bulolo	16k
III	Mount Hagen	34k
III	Wau	15k